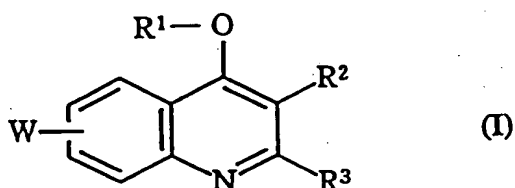


CLAIMS

1. A 4-quinolinol derivative represented by the general formula (I):



wherein

R¹ represents

a hydrogen atom,
an alkali metal,
an alkaline earth metal, or

COR⁴ in which R⁴ is

a hydrogen atom,
an optionally substituted C₁-C₁₈ alkyl group,
an optionally substituted C₂-C₁₈ alkenyl group,
an optionally substituted C₃-C₁₀ cycloalkyl group,
an optionally substituted phenyl lower alkyl group,
an optionally substituted phenoxy lower alkyl group,
an optionally substituted aryl group,

OR⁵ in which R⁵ is an optionally substituted lower alkyl group, an optionally substituted aryl group, an optionally substituted heterocycle, an optionally substituted phenyl lower alkyl group or an optionally substituted phenoxy lower alkyl group, or

NR⁶R⁷ in which R⁶ and R⁷ are each a hydrogen atom, an optionally substituted C₁-C₆ alkyl group or an optionally substituted phenyl group, or R⁶ and R⁷

together with N may form a four- to six-membered ring containing one or two heteroatoms;

R² represents an optionally substituted lower alkyl group;

R³ represents

an optionally substituted C₁-C₁₈ alkyl group,

an optionally substituted lower alkenyl group, or

an optionally substituted lower alkoxy group; or

R² and R³ together represent -(CH₂)_m- in which m is 3 or 4;

and

W represents 1 to 4 substituents on the nucleus which may be identical or different and each of which is

a halogen atom,

an optionally substituted C₁-C₁₀ alkyl group,

an optionally substituted lower alkenyl group,

an optionally substituted lower alkynyl group,

an optionally substituted C₁-C₁₀ alkoxy group,

an optionally substituted C₃-C₁₀ cycloalkyl group,

an optionally substituted aryl group,

an optionally substituted aryloxy group,

NR⁸R⁹ in which R⁸ and R⁹ are each a hydrogen atom, an optionally substituted C₁-C₆ alkyl group or an optionally substituted phenyl group, or R⁸ and R⁹ together with N may form a four- to six-membered ring containing one or two heteroatoms,

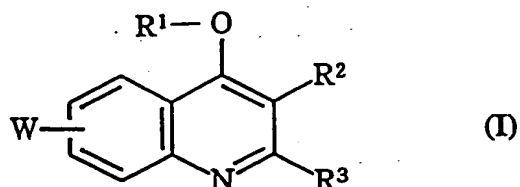
COR¹⁰ in which R¹⁰ is a hydrogen atom, an optionally substituted lower alkyl group or an optionally substituted lower alkenyl group,

COOR¹¹ in which R¹¹ is a hydrogen atom, an optionally substituted lower alkyl group or an optionally substituted lower alkenyl group,

a nitro group, or

a cyano group,
and agriculturally and horticulturally acceptable acid
addition salts thereof.

2. An agricultural and horticultural fungicide
comprising as active ingredients at least one of 4-quinolinol
derivatives represented by the general formula (I) and
agriculturally and horticulturally acceptable acid addition
salts thereof:



wherein

R¹ represents

a hydrogen atom,
an alkali metal,
an alkaline earth metal, or

COR⁴ in which R⁴ is

a hydrogen atom,
an optionally substituted C₁-C₁₈ alkyl group,
an optionally substituted C₂-C₁₈ alkenyl group,
an optionally substituted C₃-C₁₀ cycloalkyl group,
an optionally substituted phenyl lower alkyl group,
an optionally substituted phenoxy lower alkyl group,
an optionally substituted aryl group,

OR⁵ in which R⁵ is an optionally substituted lower
alkyl group, an optionally substituted aryl group, an
optionally substituted heterocycle, an optionally

substituted phenyl lower alkyl group or an optionally substituted phenoxy lower alkyl group, or

NR^6R^7 in which R^6 and R^7 are each a hydrogen atom, an optionally substituted $\text{C}_1\text{-C}_6$ alkyl group or an optionally substituted phenyl group, or R^6 and R^7 together with N may form a four- to six-membered ring containing one or two heteroatoms;

R^2 represents an optionally substituted lower alkyl group;

R^3 represents

an optionally substituted $\text{C}_1\text{-C}_{18}$ alkyl group,
an optionally substituted lower alkenyl group, or
an optionally substituted lower alkoxy group; or

R^2 and R^3 together represent $-(\text{CH}_2)_m-$ in which m is 3 or 4;

and

W represents 1 to 4 substituents on the nucleus which may be identical or different and each of which is

a halogen atom,
an optionally substituted $\text{C}_1\text{-C}_{10}$ alkyl group,
an optionally substituted lower alkenyl group,
an optionally substituted lower alkynyl group,
an optionally substituted $\text{C}_1\text{-C}_{10}$ alkoxy group,
an optionally substituted $\text{C}_3\text{-C}_{10}$ cycloalkyl group,
an optionally substituted aryl group,
an optionally substituted aryloxy group,

NR^8R^9 in which R^8 and R^9 are each a hydrogen atom, an optionally substituted $\text{C}_1\text{-C}_6$ alkyl group or an optionally substituted phenyl group, or R^8 and R^9 together with N may form a four- to six-membered ring containing one or two heteroatoms,

COR¹⁰ in which R¹⁰ is a hydrogen atom, an optionally substituted lower alkyl group or an optionally substituted lower alkenyl group,

COOR¹¹ in which R¹¹ is a hydrogen atom, an optionally substituted lower alkyl group or an optionally substituted lower alkenyl group,

a nitro group, or

a cyano group.